

Section II
Soil and Site Information

Construction Materials Table 2
Brookings County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Allivar-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.61	Good		Poor Too sandy Hard to reclaim Rock fragments	0.00 0.00 0.72
Ar: Arlo-----	90	Fair Low content of organic matter Carbonate content	0.12 0.68	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Carbonate content Hard to reclaim	0.00 0.68 0.82
AvB: Arvilla-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.34	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.50
Ba: Badger-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.14 0.49	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.14
BbA: Barnes-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
BbB: Barnes-----	80	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BcB: Barnes-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
BeA: Brandt-----	85	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.96	Poor Hard to reclaim	0.00
BeB: Brandt-----	85	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.96	Poor Hard to reclaim	0.00
Bf: Brookings-----	85	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.98
BgC: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
Barnes-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BgD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.00 0.46
Barnes-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.92
BhC: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
Barnes-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
BhE: Buse-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Slope Low strength Shrink-swell	0.00 0.00 0.22 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.00 0.46
Barnes-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell Slope	0.00 0.78 0.87 0.92	Poor Depth to permafrost Slope Carbonate content	0.00 0.00 0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BkE: Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Slope Low strength Shrink-swell	0.00 0.00 0.22 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.46
Lamoure-----	20	Fair Too clayey	0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
BoE: Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Slope Low strength Shrink-swell	0.00 0.00 0.22 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.46
Langhei-----	25	Fair Low content of organic matter Carbonate content Too clayey	0.12 0.46 0.95	Poor Slope Depth to permafrost Low strength	0.00 0.00 0.00	Poor Slope Depth to permafrost Too Clayey Carbonate content	0.00 0.00 0.55 0.80
BpD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.46
Poinsett-----	40	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BrD: Buse-----	55	Poor Stone content Low content of organic matter Carbonate content	0.00 0.12 0.80	Poor Stone content Low strength Shrink-swell Slope Cobble content	0.00 0.78 0.87 0.92 0.94	Poor Slope Hard to reclaim Rock fragments Carbonate content Salinity	0.00 0.50 0.50 0.80 0.88
Poinsett-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.92
BsC: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
Singsaas-----	30	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
BxE: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Slope Low strength Shrink-swell	0.00 0.00 0.22 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.00 0.46
Sioux-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Poor Slope	0.00	Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ca: Castlewood-----	90	Poor Too clayey	0.00	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
Ch: Chaska-----	90	Good		Poor Depth to permafrost Depth to saturated zone	0.00 0.53	Poor Depth to permafrost Depth to saturated zone	0.00 0.53
Cm: Clamo-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Co: Cubden-----	60	Fair Water erosion Carbonate content	0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell Depth to saturated zone	0.00 0.00 0.00 0.87 0.91	Poor Depth to permafrost Depth to saturated zone Carbonate content	0.00 0.91 0.92
Badger-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.14 0.49	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.14

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ct: Cubden-----	50	Fair Water erosion Carbonate content	0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell Depth to saturated zone	0.00 0.00 0.87 0.91	Poor Depth to permafrost Depth to saturated zone Carbonate content	0.00 0.91 0.92
Tonka-----	40	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.49	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.82
DaB: Darnen-----	85	Good		Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.90	Poor Depth to permafrost	0.00
DcA: Davis-----	90	Good		Poor Depth to permafrost Shrink-swell	0.00 0.87	Poor Depth to permafrost	0.00
DcB: Davis-----	90	Good		Poor Depth to permafrost Shrink-swell	0.00 0.87	Poor Depth to permafrost	0.00
Dm: Dimo-----	90	Fair Low content of organic matter	0.12	Fair Depth to saturated zone	0.76	Fair Hard to reclaim Depth to saturated zone	0.08 0.76

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dn: Divide-----	80	Fair Carbonate content Low content of organic matter	0.46 0.50	Fair Depth to saturated zone	0.91	Fair Hard to reclaim Carbonate content Depth to saturated zone Rock fragments	0.18 0.46 0.91 0.97
DoB: Doland-----	85	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to permafrost	0.00
DsA: Doland-----	55	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to permafrost	0.00
Svea-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.94	Poor Depth to permafrost	0.00
EaB: Egan-----	65	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Ethan-----	25	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EeB: Egan-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Wentworth-----	30	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Trent-----	20	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.89
EgA: Egeland-----	50	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Embden-----	45	Fair Low content of organic matter	0.50	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
EgB: Egeland-----	60	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Embden-----	30	Fair Low content of organic matter	0.50	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
EnA: Enet-----	90	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EsA: Estelline-----	90	Fair Water erosion	0.90	Poor Low strength	0.00	Fair Hard to reclaim	0.82
EsB: Estelline-----	85	Fair Water erosion	0.90	Poor Low strength	0.00	Fair Hard to reclaim	0.82
EtB: Estelline-----	60	Fair Water erosion	0.90	Poor Low strength	0.00	Fair Hard to reclaim	0.82
Sioux-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
EvD: Ethan-----	60	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.68
Clarno-----	35	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope	0.00 0.37
EwC: Ethan-----	50	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.68

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Egan-----	45	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Fa: Fairdale-----	85	Fair Carbonate content	0.92	Poor Depth to permafrost Shrink-swell	0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Fb: Fordtown-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
Fc: Fordtown-----	55	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
Spottswood-----	30	Poor Too sandy Low content of organic matter	0.00 0.12	Fair Depth to saturated zone	0.76	Poor Too sandy Rock fragments Depth to saturated zone	0.00 0.72 0.76
FdA: Fordville-----	90	Poor Too sandy Low content of organic matter	0.00 0.12	Good		Poor Too sandy	0.00
FrB: Fordville-----	60	Poor Too sandy Low content of organic matter	0.00 0.12	Good		Poor Too sandy	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Renshaw-----	30	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.85	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Gs: Goldsmith-----	90	Fair Water erosion Too acid Carbonate content	0.90 0.97 0.97	Poor Low strength Shrink-swell	0.00 0.96	Fair Hard to reclaim	0.50
Hb: Hamerly-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Poor Depth to permafrost Low strength Shrink-swell Depth to saturated zone	0.00 0.22 0.87 0.91	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.80 0.91
Badger-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.14 0.49	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.14
Hc: Hamerly-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Poor Depth to permafrost Low strength Shrink-swell Depth to saturated zone	0.00 0.22 0.87 0.91	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.80 0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cavour-----	30	Poor Too clayey Low content of organic matter Salinity Sodium content Carbonate content Water erosion	0.00 0.12 0.50 0.90 0.99 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.59	Poor Depth to permafrost Too Clayey Salinity Sodium content	0.00 0.00 0.00 0.90
Badger-----	20	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.14 0.49	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.14
HeA: Hetland-----	90	Poor Too clayey Carbonate content Water erosion	0.00 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
HeB: Hetland-----	90	Poor Too clayey Carbonate content Water erosion	0.00 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
KrA: Kranzburg-----	55	Fair Carbonate content Water erosion	0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Brookings-----	30	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.98
KrB: Kranzburg-----	65	Fair Carbonate content Water erosion	0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
Brookings-----	25	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.98
La: La Prairie-----	85	Fair Carbonate content	0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.91	Poor Depth to permafrost	0.00
Lc: La Prairie-----	85	Fair Carbonate content	0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.91	Poor Depth to permafrost	0.00
Ld: Ladelle-----	90	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to permafrost	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Le: Lamo-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.53 0.87	Poor Depth to permafrost Depth to saturated zone	0.00 0.53
Lk: Lamoure-----	75	Fair Too clayey	0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Lm: Lamoure-----	65	Fair Too clayey	0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Rauville-----	25	Fair Too clayey	0.98	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to saturated zone Too Clayey	0.00 0.98
LnB: Lanona-----	60	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
Swenoda-----	25	Fair Water erosion Carbonate content	0.90 0.92	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lo: Lowe-----	85	Fair Low content of organic matter Carbonate content	0.50 0.68	Poor Depth to permafrost Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Depth to saturated zone Carbonate content	0.00 0.00 0.68
Lr: Lowe-----	50	Fair Low content of organic matter Carbonate content	0.50 0.68	Poor Depth to permafrost Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Depth to saturated zone Carbonate content	0.00 0.00 0.68
Ludden-----	35	Poor Too clayey	0.00	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
Ls: Ludden-----	85	Poor Too clayey	0.00	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
Lu: Ludden-----	45	Poor Too clayey Salinity Droughty	0.00 0.50 0.96	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.00 0.50
Ludden-----	40	Poor Too clayey	0.00	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous Water Areas-----	100	Not rated		Not rated		Not rated	
MaB: Maddock-----	55	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.88			Too sandy	0.00
Egeland-----	35	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
MaC: Maddock-----	65	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.88			Too sandy	0.00
Egeland-----	25	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
MeA: Maddock-----	50	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.88			Too sandy	0.00
Embden-----	40	Fair Low content of organic matter	0.50	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Mr: Marysland-----	85	Fair Low content of organic matter	0.12	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Carbonate content	0.68	Shrink-swell	0.99	Carbonate content	0.68
						Hard to reclaim	0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mt: Mcintosh-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.53 0.87	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.46 0.53
Badger-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.14 0.49	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.14
Mu: Mcintosh-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.53 0.87	Poor Depth to permafrost Carbonate content Depth to saturated zone	0.00 0.46 0.53
Lamoure-----	25	Fair Too clayey	0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Mw: Minnewaukan-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.69	Poor Depth to saturated zone Depth to permafrost	0.00 0.00	Poor Depth to permafrost Too sandy Depth to saturated zone Rock fragments	0.00 0.00 0.00 0.88

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mz: Moritz-----	50	Fair Carbonate content	0.92	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.76 0.92	Poor Depth to permafrost Depth to saturated zone Carbonate content	0.00 0.76 0.92
Lamoure-----	35	Fair Too clayey	0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Od: Oldham-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.39	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Og: Orthents, Gravelly--	95	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.44	Poor Slope	0.00	Poor Too sandy Rock fragments Slope Hard to reclaim	0.00 0.00 0.00 0.18
Or: Orthents, Loamy-----	95	Fair Too clayey	0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.93

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Parnell-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.21	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
PbB: Poinsett-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
Waubay-----	20	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
PbC: Poinsett-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Waubay-----	20	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
PwA: Poinsett-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Waubay-----	30	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
PwB: Poinsett-----	60	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.92
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
Ra: Rauville-----	80	Fair Too clayey	0.98	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to saturated zone Too Clayey	0.00 0.98

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rp: Rauville-----	90	Fair Too clayey	0.98	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.96	Poor Depth to saturated zone Too Clayey	0.00 0.98
RsB: Renshaw-----	60	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.85	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Sioux-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
RsC: Renshaw-----	50	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.85	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Sioux-----	40	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Rw: Renwash-----	90	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.90	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.02

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SbB: Singsaas-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
ScA: Singsaas-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Waubay-----	30	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
ScB: Singsaas-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ShD: Sioux-----	45	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.37
Renshaw-----	35	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.85	Good		Poor Rock fragments Hard to reclaim Too sandy Slope	0.00 0.08 0.14 0.37
ShE: Sioux-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.16	Poor Slope	0.00	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.00
Renshaw-----	35	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.85	Fair Slope	0.50	Poor Slope Rock fragments Hard to reclaim Too sandy	0.00 0.00 0.08 0.14
So: Southam-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.15	Poor Depth to permafrost Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.88

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sp: Spottswood-----	85	Poor Too sandy Low content of organic matter	0.00 0.12	Fair Depth to saturated zone	0.76	Poor Too sandy Rock fragments Depth to saturated zone	0.00 0.72 0.76
SrA: Strayhoss-----	85	Fair Low content of organic matter	0.18	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
SrB: Strayhoss-----	85	Fair Low content of organic matter	0.18	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
StB: Strayhoss-----	60	Fair Low content of organic matter	0.18	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Maddock-----	30	Poor Too sandy Low content of organic matter	0.00 0.88	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
SvA: Svea-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.94	Poor Depth to permafrost	0.00
SwA: Svenoda-----	55	Fair Water erosion Carbonate content	0.90 0.92	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lanona-----	35	Fair Low content of organic matter	0.12	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost	0.00
To: Tonka-----	90	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.49	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.82
Tr: Trent-----	90	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.89
VaA: Venagro-----	60	Fair Low content of organic matter Too acid Carbonate content	0.12 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost	0.00
Svea-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.94	Poor Depth to permafrost	0.00
VaB: Venagro-----	65	Fair Low content of organic matter Too acid Carbonate content	0.12 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to permafrost	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Svea-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.94	Poor Depth to permafrost	0.00
VbA: Vienna-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.99
Brookings-----	30	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.98
VbB: Vienna-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.99
Brookings-----	20	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.98
VnB: Vienna-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.99

Section II
Soil and Site Information

Construction Materials Table 2
Brookings County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
VnC: Vienna-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.99
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.22 0.87	Poor Depth to permafrost Carbonate content	0.00 0.46
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wakonda-----	70	Fair Carbonate content Water erosion	0.80 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.80
Chancellor-----	20	Poor Too clayey Water erosion	0.00 0.90	Poor Depth to permafrost Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00
Wb: Waubay-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97

Section II
Soil and Site Information

Construction Materials Table 2
Brookings County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WeA: Wentworth-----	65	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Trent-----	25	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.89
Wo: Worthing-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey Depth to saturated zone	0.00 0.00 0.00

